

All India Coordinated Research Project on Agrometeorology (AICRPAM)

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Weather conditions and Agromet advisories issued during December 2022

1. General Weather Conditions

During 01 October - 31 December 2022, the country as a whole received 144 mm rainfall, which is 19% excess, compared to the normal rainfall (121 mm) for the same period. Out of 36 meteorological sub-divisions, rainfall was large excess, excess, normal, deficient and large deficient in 06, 10, 14, 04 and 02 sub-division(s), respectively as depicted in Fig. 1.

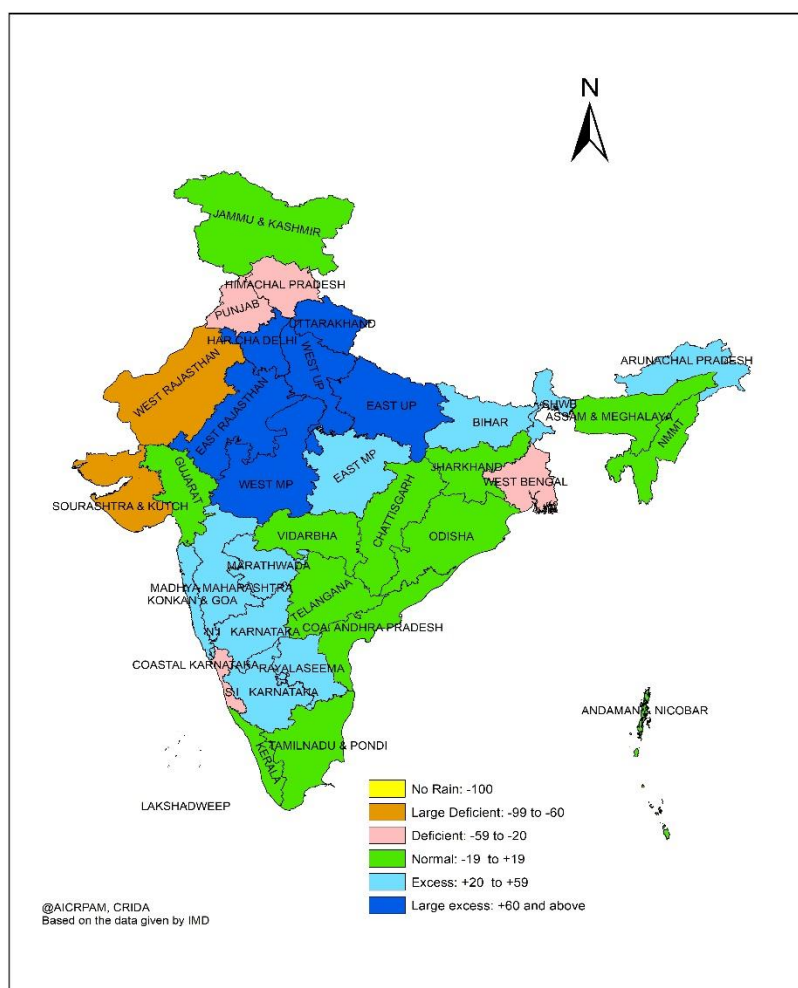


Fig. 1: Seasonal rainfall status (01 October - 31 December 2022) in 36 meteorological sub-divisions, India

2. Agromet advisories issued by AICRPAM centers during December 2022

Date of issue	Advisory issued for the region	Agromet Advisory issued
02-12-2022	Vidarbha	<ul style="list-style-type: none"> Due to the continuous cold weather across the region, it is advised to apply need-based irrigation to protect the susceptible field crops (pigeon pea), orchards and vegetables from cold.
	Odisha	<ul style="list-style-type: none"> Due to prevailing low temperature, farmers are advised to use low cost polythene to cover above the vegetables nursery to avoid poor germination.
	Bihar	<ul style="list-style-type: none"> In view of low soil moisture and dry weather condition, farmers are advised to provide light irrigation in garlic fields at a regular interval.
	South Interior Karnataka	<ul style="list-style-type: none"> Due to cloudy and drizzling rainfall, it is advised to postpone the harvesting of <i>kharif</i> crops in next couple of days.
09-12-2022	Tamil Nadu	<ul style="list-style-type: none"> Heavy to very heavy rainfall along with high wind is expected in the northern Tamil Nadu. Farmers are instructed to take essential measure to protect crops and livestock from cyclone. Hence, farmers are advised to avoid fertilizer application, insecticides or pesticides spray during rainy days.
	Kerala	<ul style="list-style-type: none"> Due to cloudy weather condition, there is a chance of leaf folder infestation in <i>Mundakan</i> paddy. It can be controlled by using Trichogramma cards (2 CC per one acre). Cut the cards in to small pieces and fix in different regions of the field. If the attack is severe, spray Chlorantraniliprole @ 3 ml per 10 litres of water.
	Marathwada	<ul style="list-style-type: none"> Due to cloudy weather condition, there is possibility of jassid infestation in mango flowers. For management of jassid in Mango orchards, it is advised to spray Dimethoate 30% @ 13ml or Buprofezin 25% @ 20 ml or Thiamethoxam 25% 2 gm per 10 litres of water.
	West Bengal	<ul style="list-style-type: none"> Deficient rainfall pattern is observed in the southern districts of West Bengal, farmers are advised to reject the sowing of <i>Boro</i> rice.
16-12-2022	Madhya Maharashtra	<ul style="list-style-type: none"> Spraying of 1% KNO₃ is advised under moisture stress condition on the <i>rabi</i> crops.

16-12-2022	Western Uttar Pradesh	<ul style="list-style-type: none"> Because of no rainfall forecast in coming weeks, farmers are advised to sow late sown wheat varieties under assured irrigation. Recommended varieties for late sowing are <i>HUW234, K-7903, UP-2338, K-9162, K-9533, HD-2643, HP-1744, NW-1014, K-8020, UP2425, NW-2036, DBW-14, K-9423, PBW-524, NW-1076</i> and <i>HUW-510</i>.
	Andhra Pradesh	<ul style="list-style-type: none"> In the aftermath of Mandous cyclone in the southern parts of the state, the farmers are advised to drain out the excess water from the fields and apply urea @15-20 kg and Muriate of Potash @10-20 kg/acre as top dressing in rice crop. Also, the farmers are suggested to spray fungicides like Carbendazim @1.5 g/litre of water as prophylactic measure to prevent fungal disease incidence in crops.
	Rajasthan	<ul style="list-style-type: none"> Due to high relative humidity, incidence of blight may occur in potato. Farmers are advised for constant monitoring in the field. If symptoms appear, then spray Carbendazim @ 1.0 g/litre of water or Dithane-M-45 @ 2.0 g/litre of water recommended.
23-12-2022	Haryana	<ul style="list-style-type: none"> Due to possibility of dry and clear weather condition, farmers are advised to apply irrigation in existing vegetable crops and monitor for insect-pests and also adopt weed control on time.
	Assam	<ul style="list-style-type: none"> It is advised to cover the bunches of bananas with white polythene bags to protect against low temperature stress.
	Jammu	<ul style="list-style-type: none"> As there are no chances of rainfall in coming weeks, farmers are advised to provide irrigation in mustard, if the crop is 35-40 days old.
	Jharkhand	<ul style="list-style-type: none"> For the management of leaf curling in potato crop, it is advised to spray Caldan 50 SP @ 1 g per liter of water.
30-12-2022	Uttarakhand	<ul style="list-style-type: none"> Under prevailing weather condition, it is advised to apply irrigation in standing crops as needed. Intercultural operations are also advised for conserving the moisture and removing weeds in all crops.
	East Madhya Pradesh	<ul style="list-style-type: none"> Due to dryness in the atmosphere in the coming days, a light irrigation is needed at 30-35 DAS in mustard crop.
	Assam	<ul style="list-style-type: none"> Low night temperature coupled with dense fog is favorable for aphid infestation in rapeseed. To control aphid attack, it is advised to spray Thiamethoxam 25 WG @ 3 g per 10 litres of water.

	Chhattisgarh	<ul style="list-style-type: none"> • Under prevailing weather condition, sowing of improved varieties of sunflower like <i>Modern</i>, <i>TNAU</i>, <i>SUF-7</i>, <i>BSH-1</i>, <i>KBSH-1</i>, <i>DRSH-1</i>, <i>Jwalamukhi</i>, <i>Surya</i> etc. is advised.
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